



UNIFIED, INTERACTIVE PRESENTATION

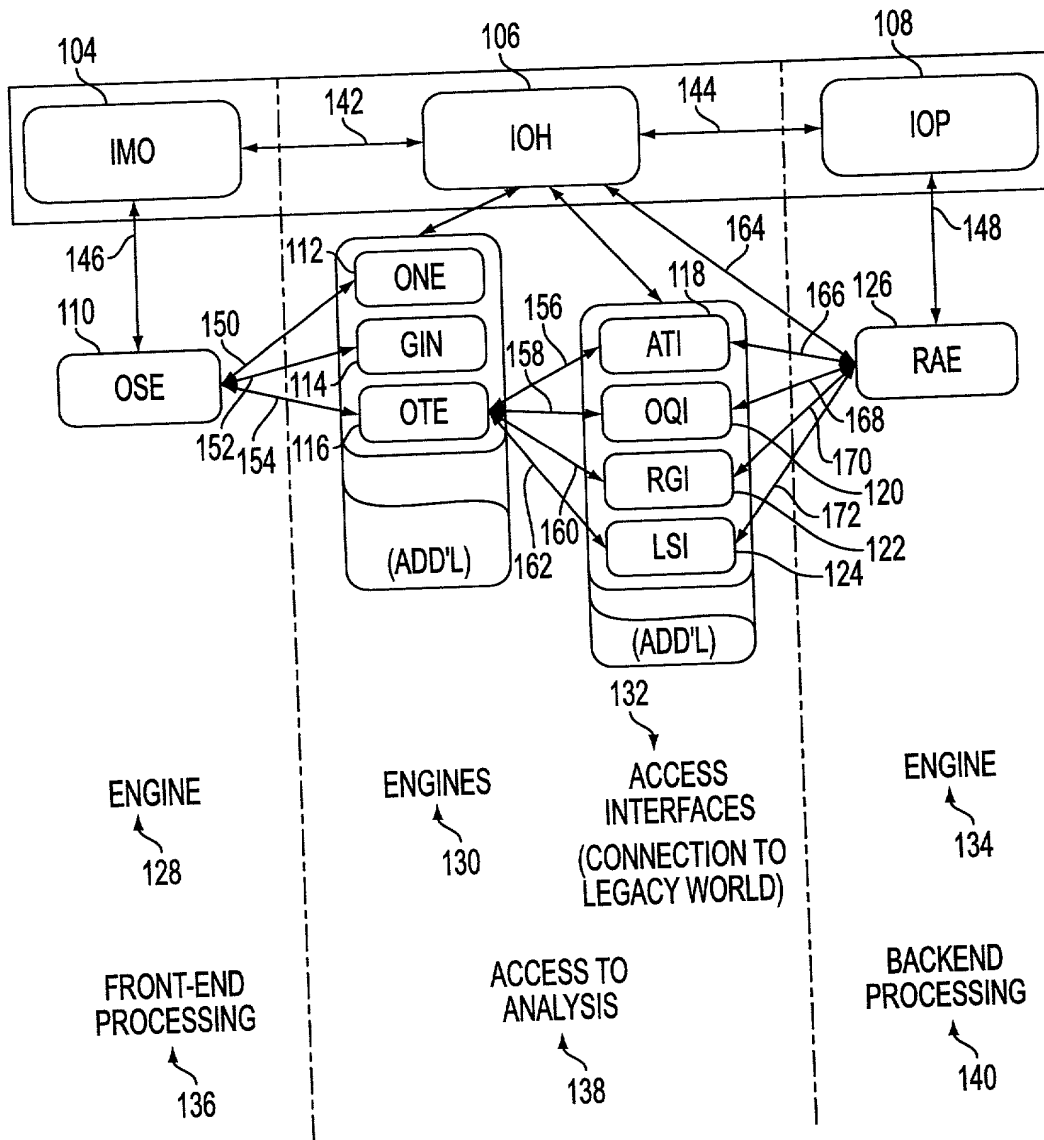


FIG. 1

ORIGINAL PAPER
FILED

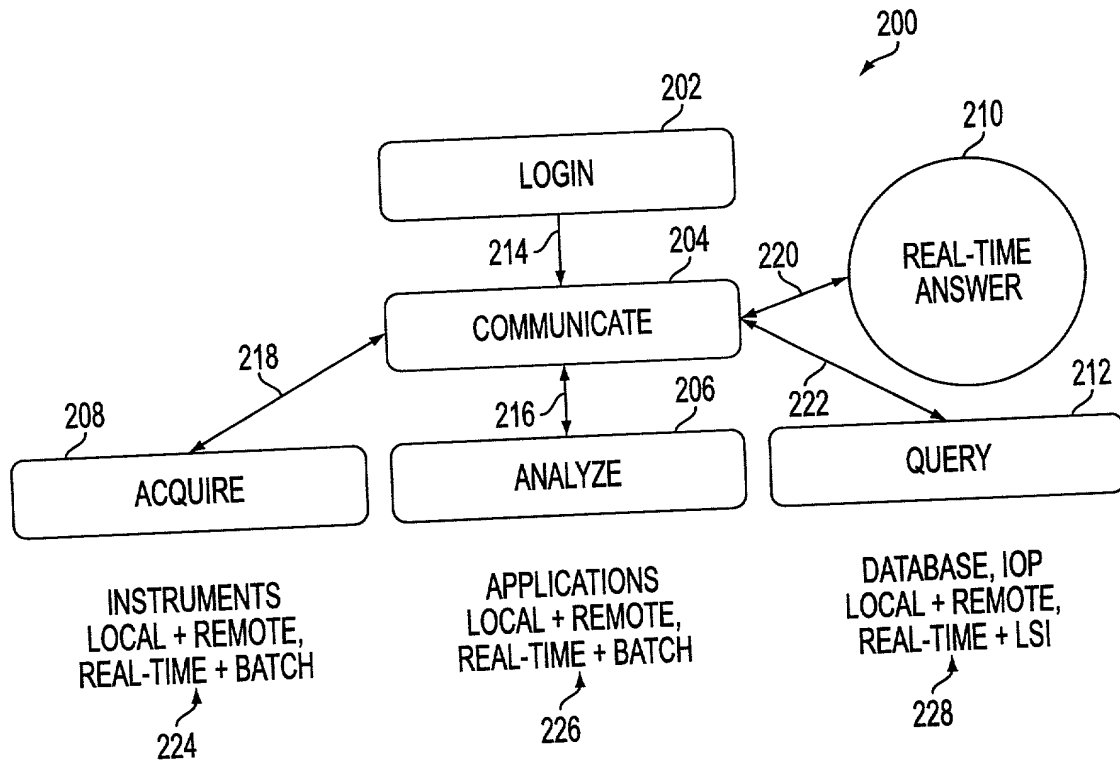
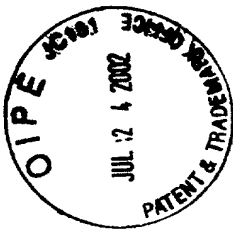


FIG. 2

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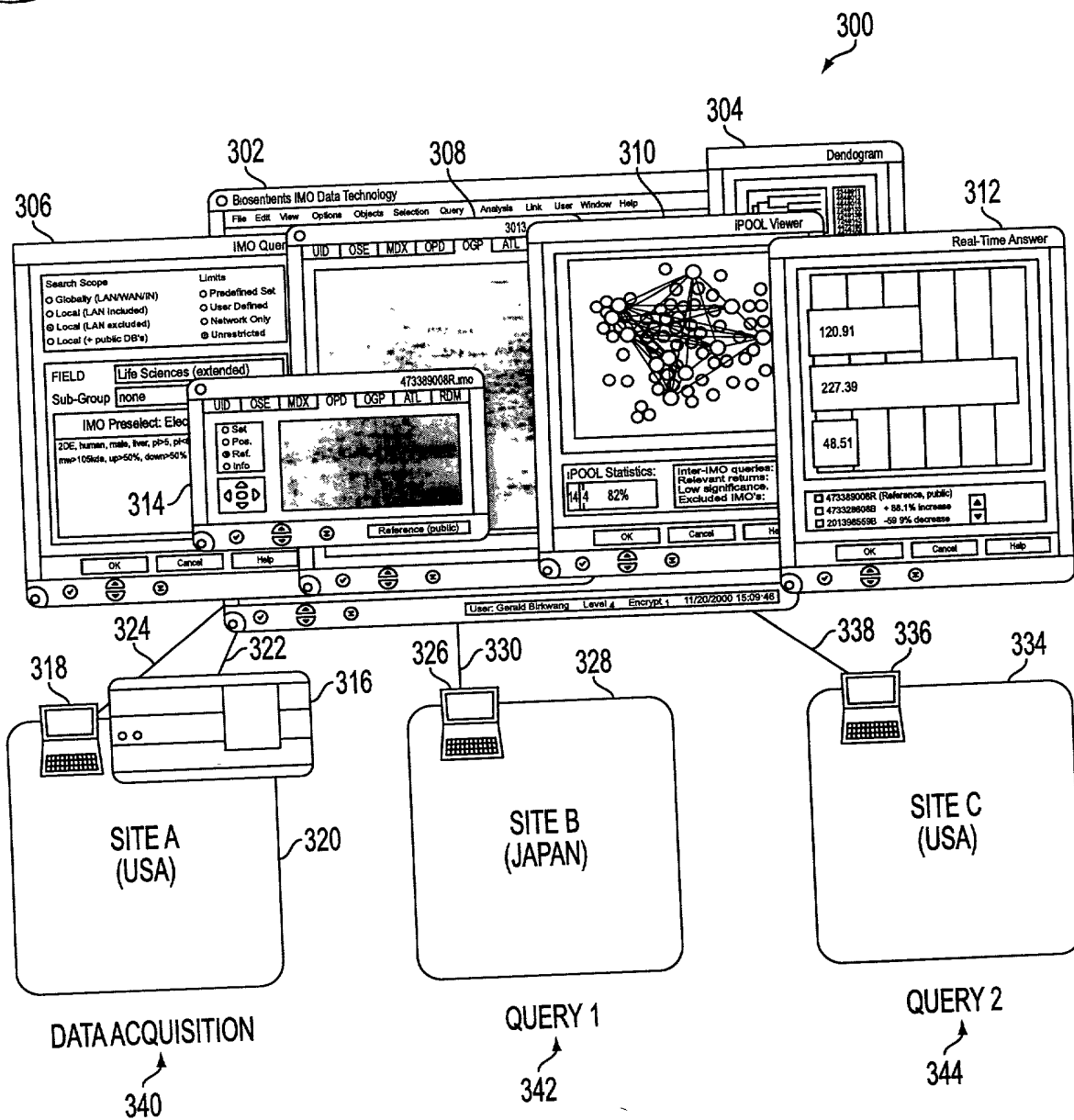
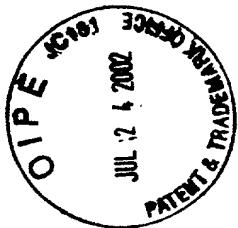
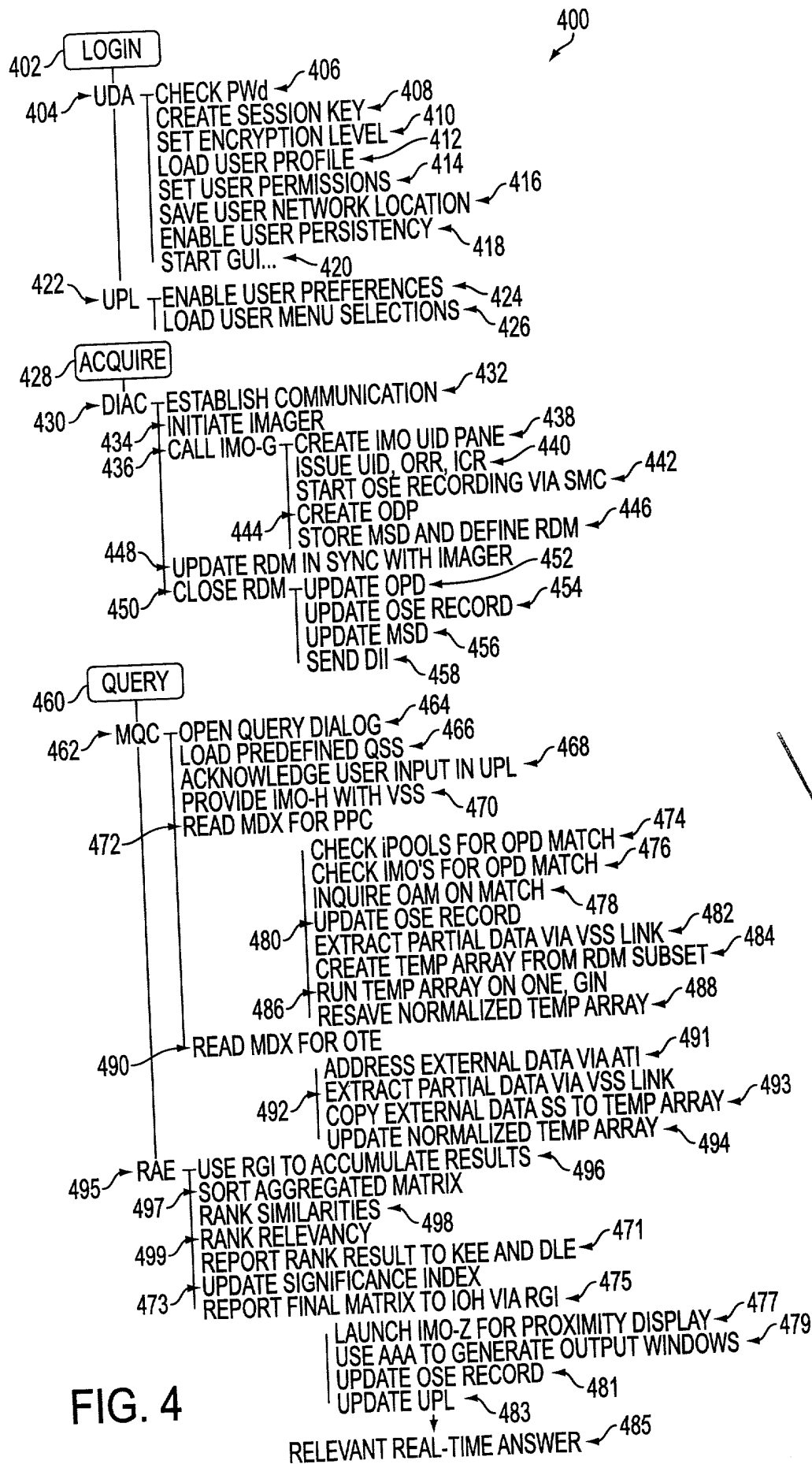


FIG. 3

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FIG. 4

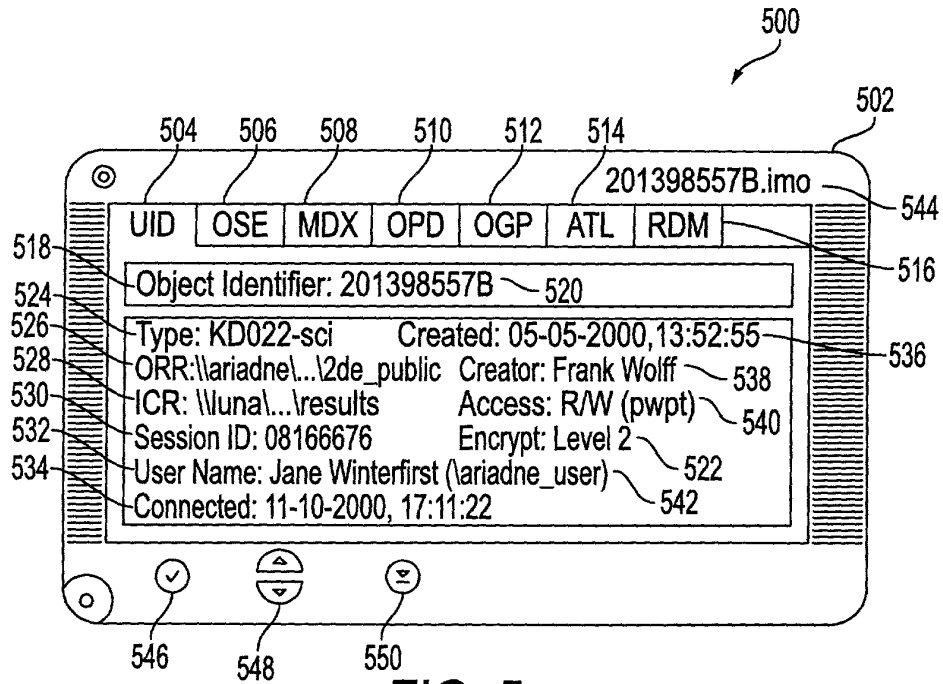
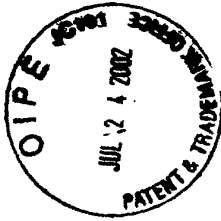


FIG. 5

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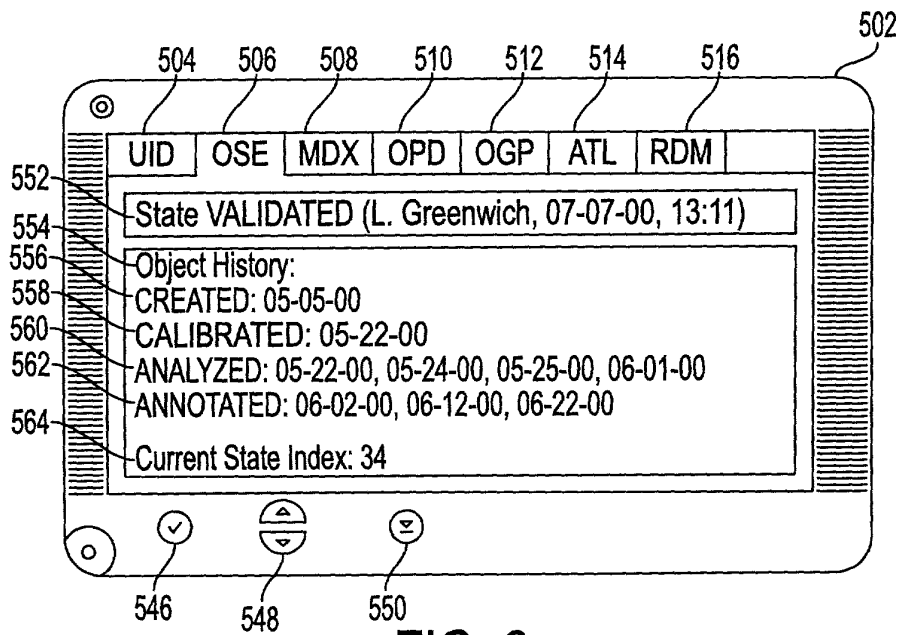


FIG. 6

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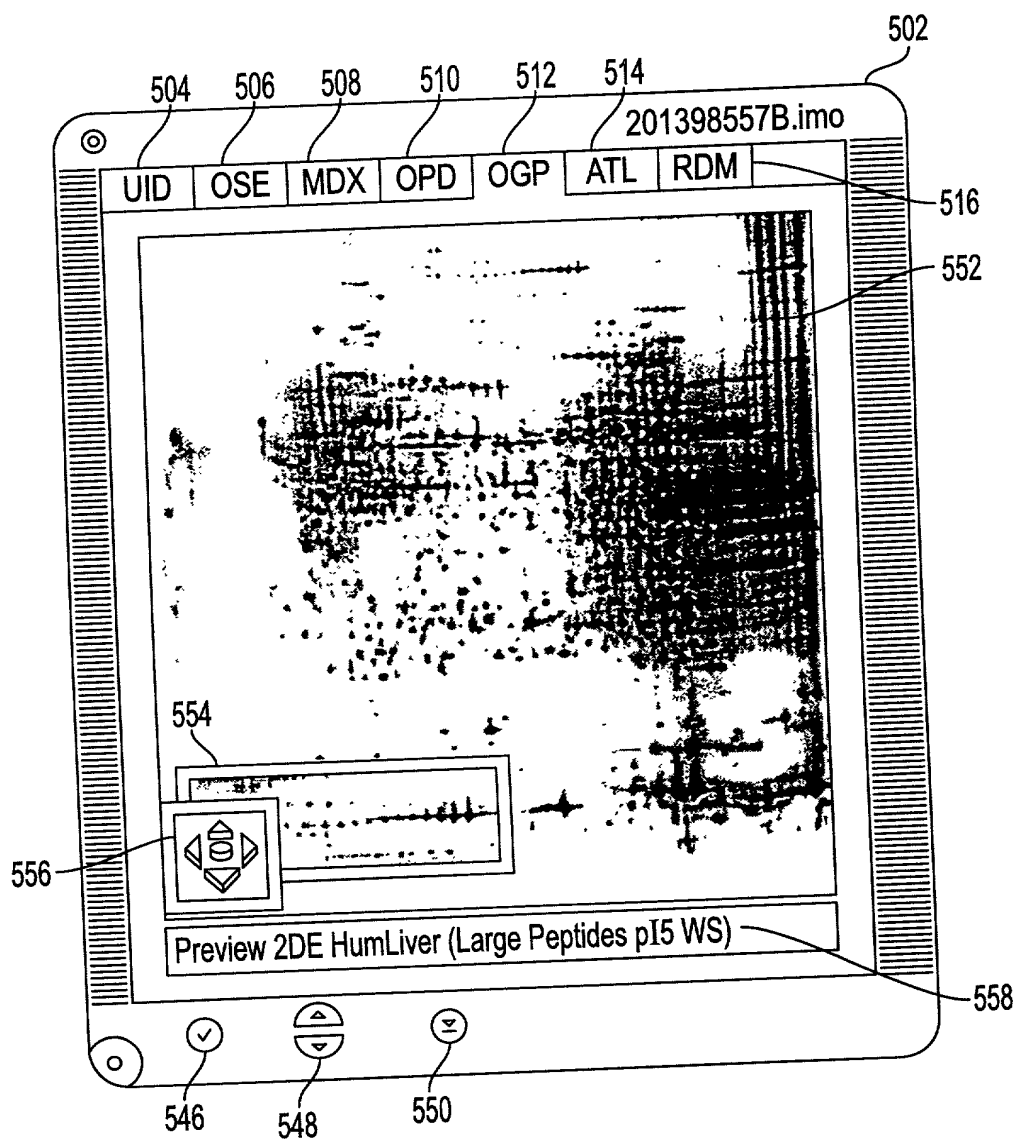
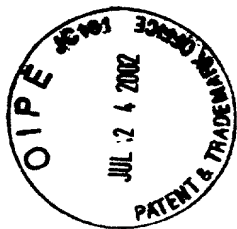
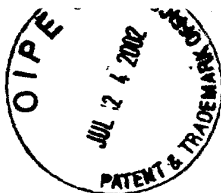


FIG. 7

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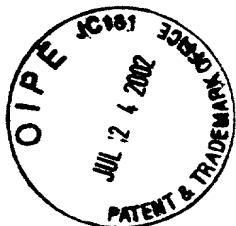


IMO OSE State Lookup Table ← 900

000 Object created	073 Aminoacid designation (protein sequence)
010 Data acquisition	074 Molecule function
011 DA in progress	075 Molecular structure
012 DA interrupted	080 Functionality information
013 DA continued	081 Organism
014 DA completed	082 Metabolic phase
020 Data type definition	083 Disease relationship
021 DT raw	100 Standardization/normalization
022 DT matrix	101 STD threshold
023 DT structure	102 STD base function (e.g., baseline)
024 DT vector	103 STD base plane (e.g., 3D space)
025 DT pointer	14x STD all 04x (Bio; e.g., 141 STD quantitation)
026 DT path	15x STD all 05x (Image; e.g., 152 STD fluorescence intensity)
027 DT binary	300 Experiment validation
028 DT ASCII	301 Invalid conditions
040 Bio-Calibrations	302 Invalid experiment
041 C quantitation	303 Invalid interpretation
042 C molecular weight	304 Invalid analysis tool applied
043 C isoelectric point	310 Unsure result
044 C enzyme-activity	311 Unsure conditions
045 C immunological activity	312 Unsure method
046 C other bio-activity	320 Validated method
050 Image-Calibrations	321 Validated analysis
051 C optical density (OD)	333 Validated experiment
052 C fluorescence intensity	340 Forensic experiment
053 C luminescence intensity	350 Certified experiment
054 C white balance	400 Output request
055 C light intensity	410 Numerical output generated
056 C dynamic range verification	411 Graphical output generated
060 Measurement-Calibrations	420 Remote output sent
061 C origin	430 Output printed
062 C size x	900 Access information
063 C size y	901 Access denied
064 C position x	902 Time limit exceeded
065 C position y	903 User limit exceeded
066 C position z	910 Inter-object communication granted
067 C length	911 User access to object granted
068 C width	920 Full access to object granted
069 C depth	
070 Annotations	
071 Descriptive text	
072 Base Designation (DNA sequence)	

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FIG. 9



1000

Object:

State	User/level	Network	Date/time stamp	(Explanation)
000	RAS/05	00220	12/20/2000 14:33:05	(object created)
011	WUD/02	00220	12/20/2000 14:33:07	(data: acquisition in progress)
014	WUD/02	00220	12/20/2000 16:53:07	(data: acquisition completed)
022	WUD/02	00220	12/20/2000 16:55:22	(data: matrix defined)
056	GOT/03	00220	12/21/2000 08:00:57	(image: dynam. range verified)
052	GOT/03	00220	12/21/2000 08:01:46	(image: fluoresc. intens. calib.)
041	GOT/03	00220	12/21/2000 08:16:31	(bio: quantitation calib.)
061	GOT/03	00220	12/21/2000 08:18:58	(image: origin calib.)
062	GOT/03	00220	12/21/2000 08:20:25	(image: size x calib.)
063	GOT/03	00220	12/21/2000 08:23:19	(image: size y calib.)
101	GOT/03	00220	12/21/2000 08:25:44	(std/norm: detection threshold)
164	GOT/03	00220	12/21/2000 08:41:12	(std/norm: measurement x)
165	GOT/03	00220	12/21/2000 08:45:30	(std/norm: measurement y)
901	KRE/05	00080	12/21/2000 08:45:31	(access denied)
911	AAH/02	04092	12/21/2000 08:45:44	(user: access to object granted)
071	AAH/02	04092	12/21/2000 08:45:50	(anno: descript. text)
024	GOT/03	00220	12/21/2000 08:52:12	(data: vector defined)
911	BLD/03	00693	12/21/2000 09:02:36	(user: access to object granted)
073	BLD/03	00693	12/21/2000 09:02:39	(anno: AA protein sequence)
045	GOT/03	00220	12/21/2000 09:14:08	(bio: immunol. activity)
046	GOT/03	00220	12/21/2000 09:39:41	(bio: other bio-activity)
410	GOT/03	00220	12/21/2000 09:42:31	(output: numerical output)
411	GOT/03	00220	12/21/2000 09:44:07	(output: graphical output)
430	GOT/03	00220	12/21/2000 09:42:31	(output: printed)

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FIG. 10

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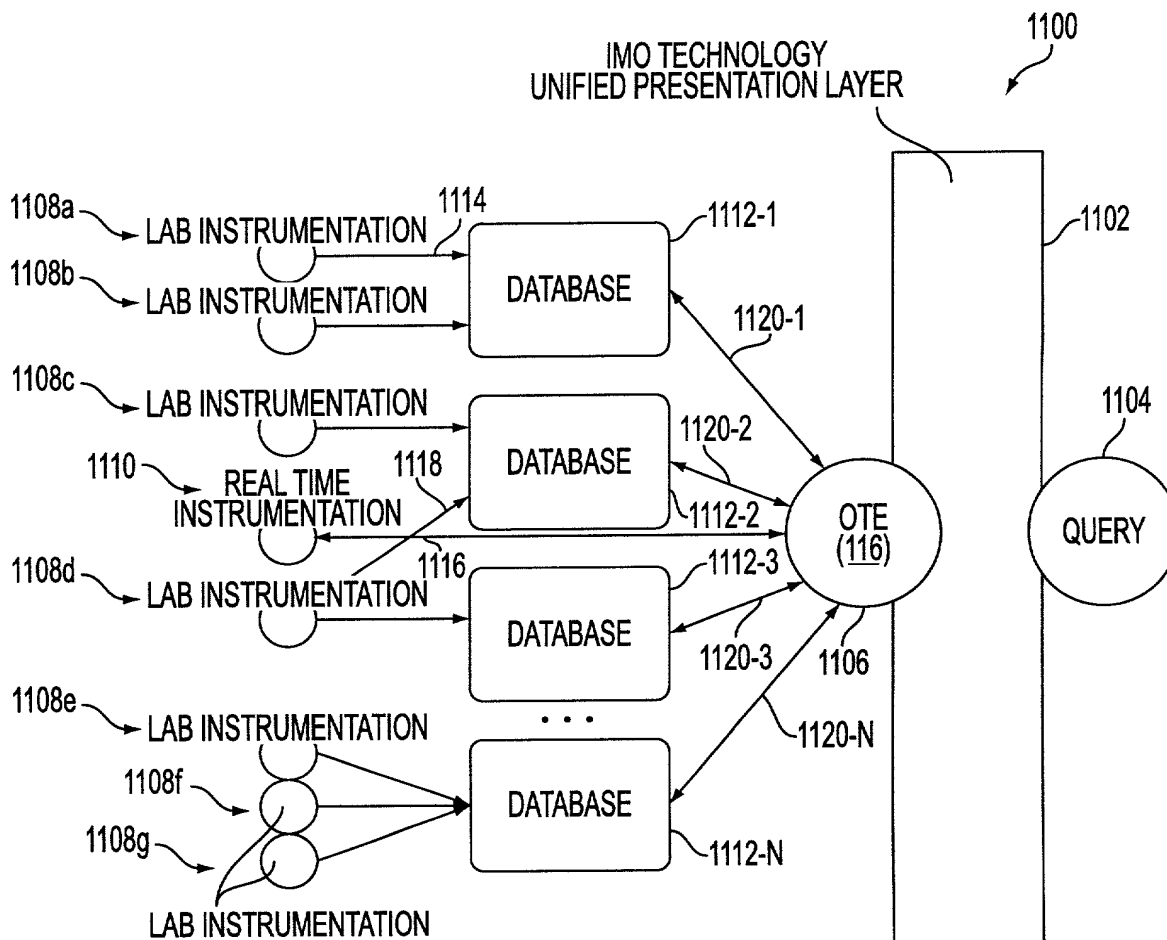
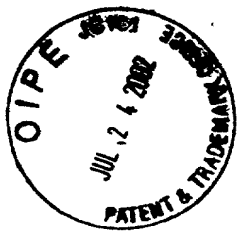


FIG. 11

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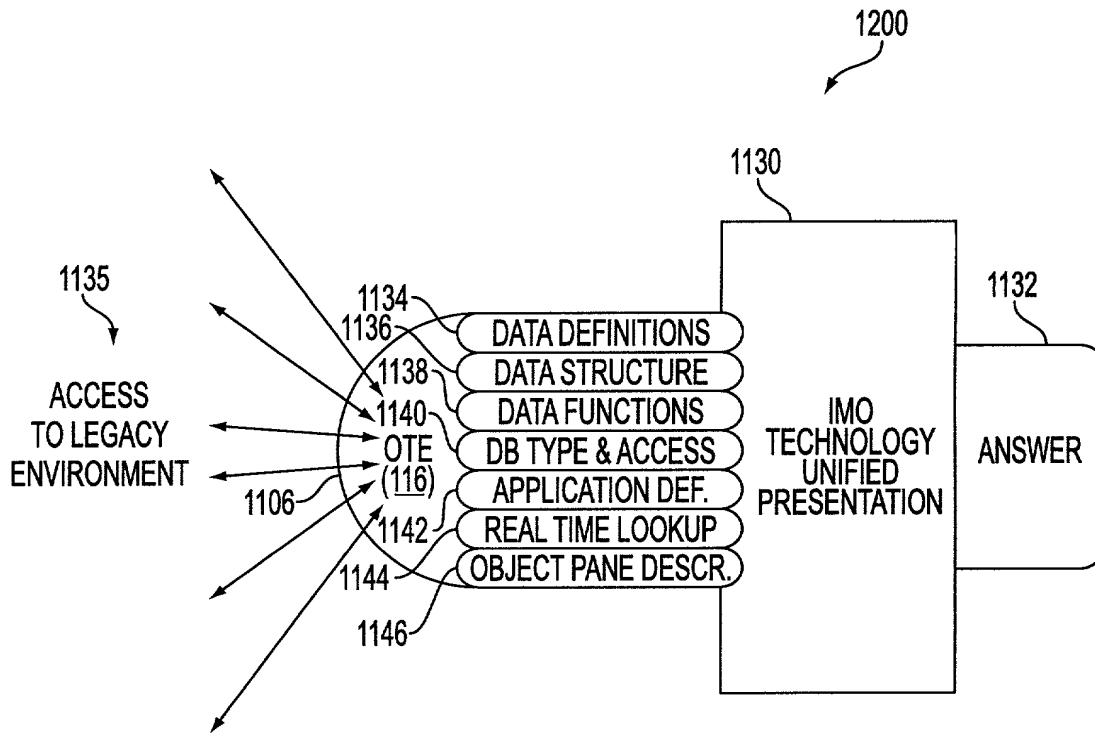
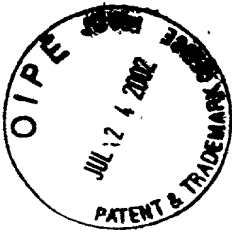


FIG. 12

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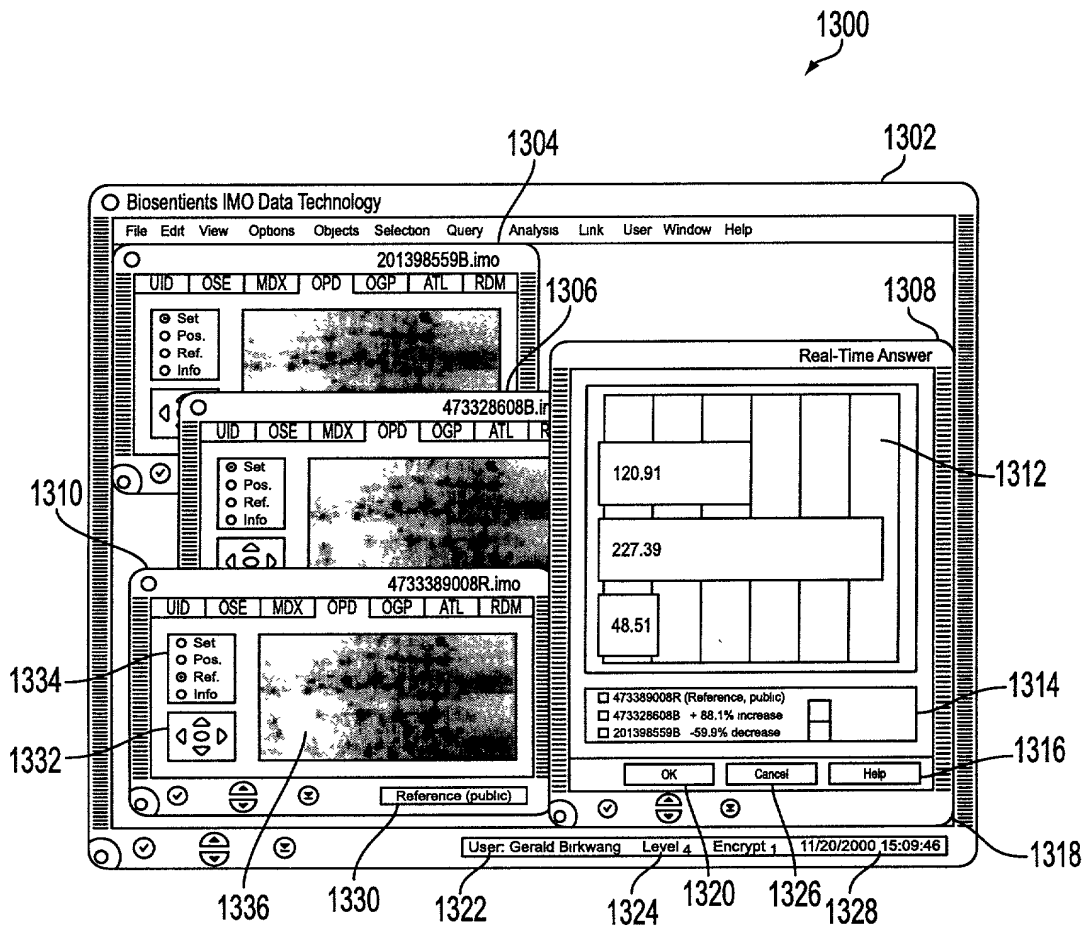
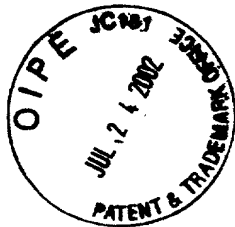


FIG. 13

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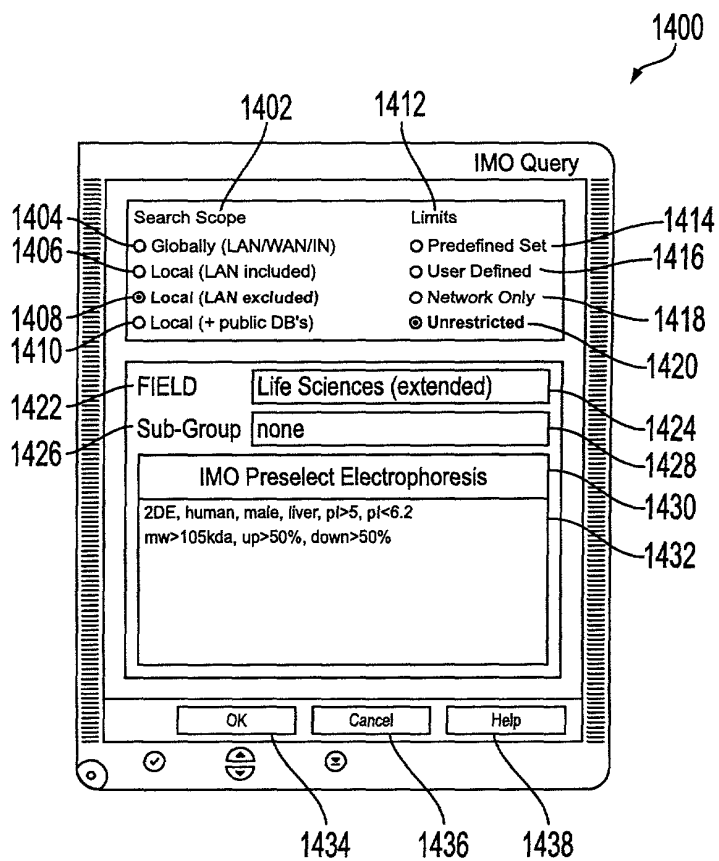


FIG. 14

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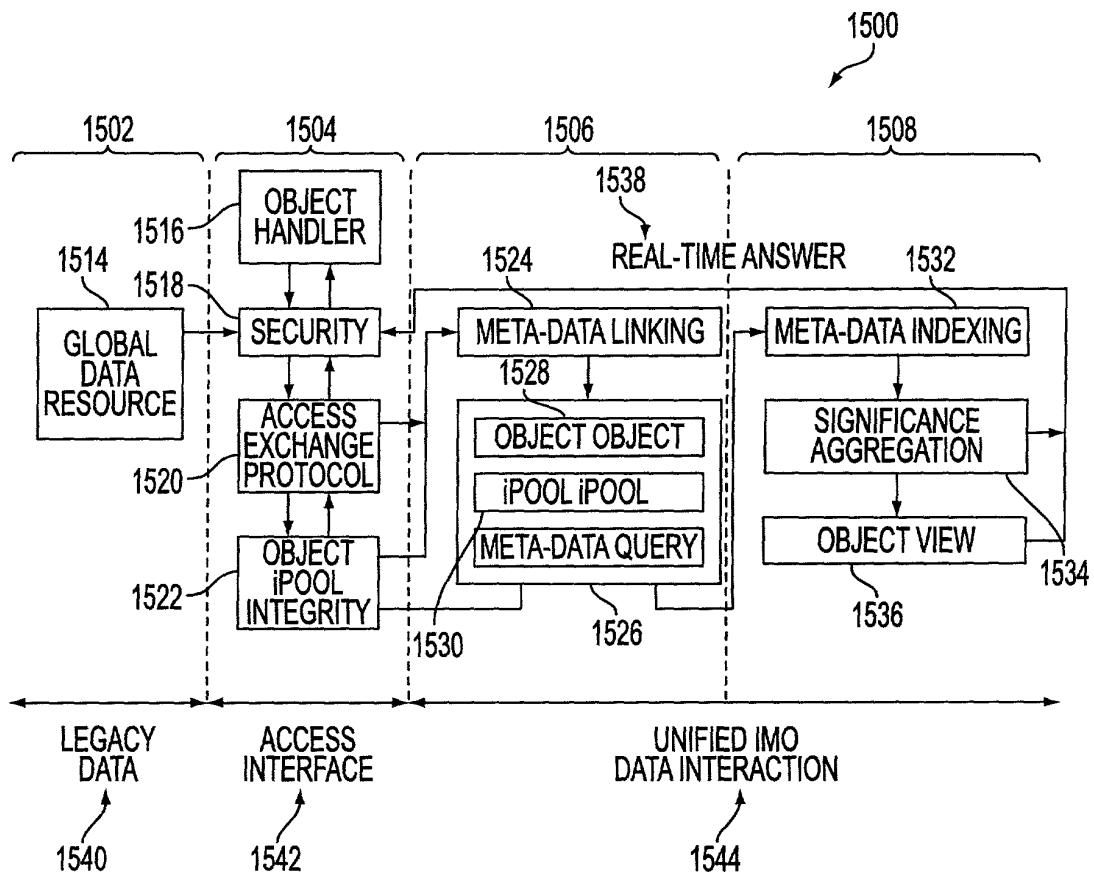
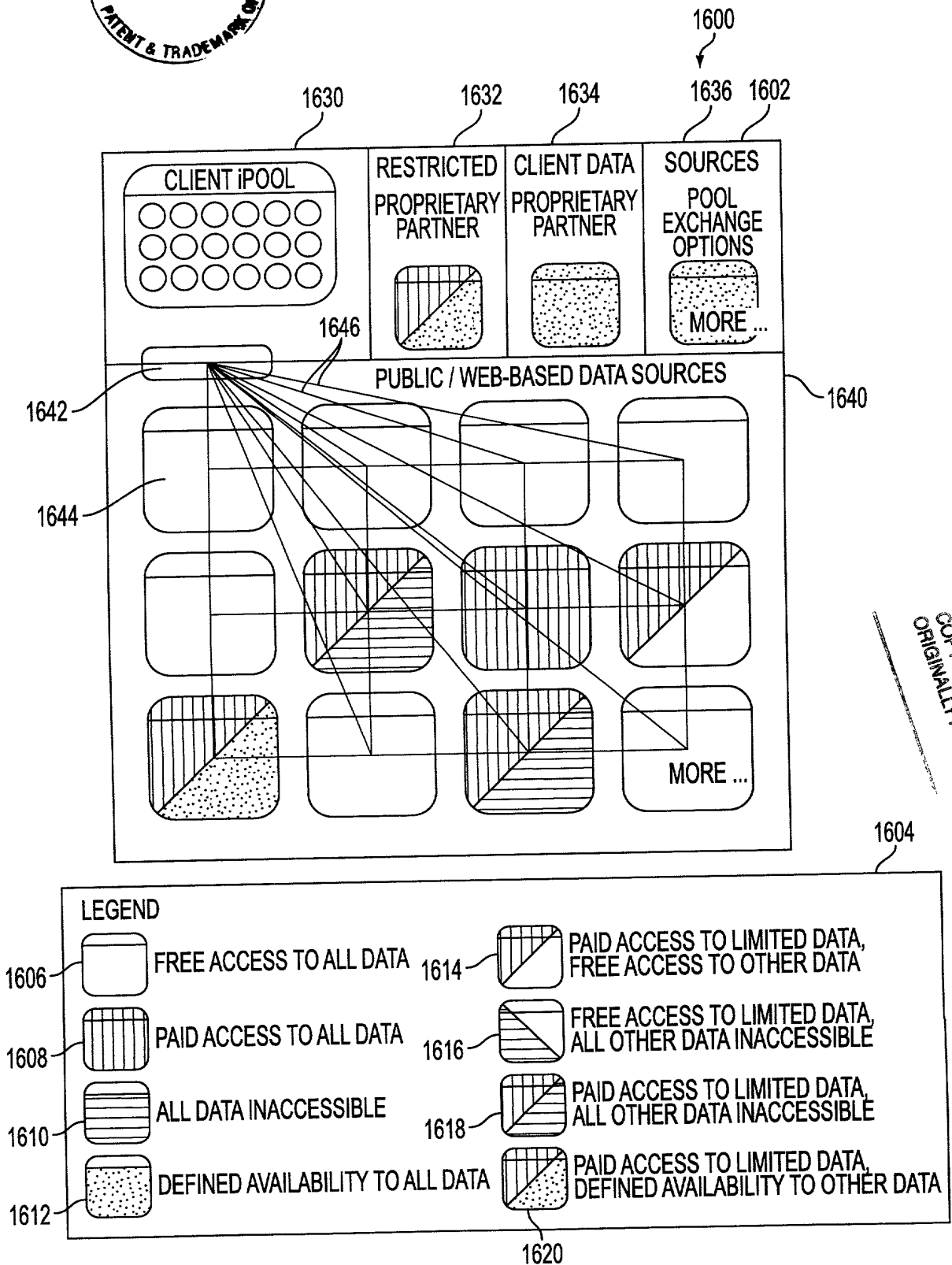


FIG. 15

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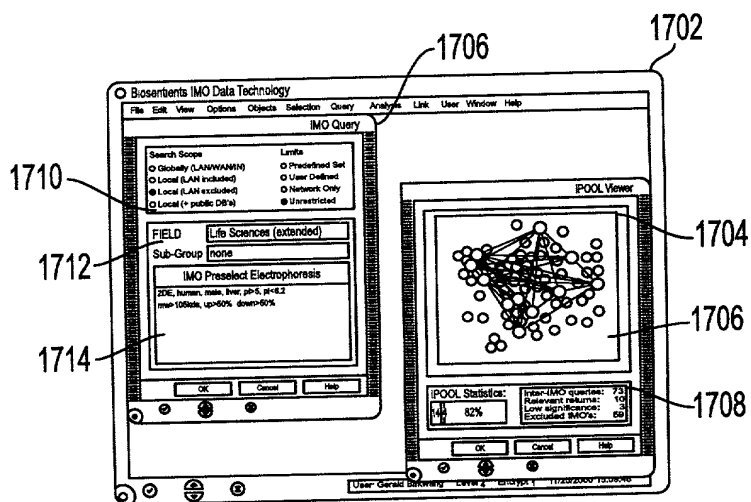


FIG. 17A

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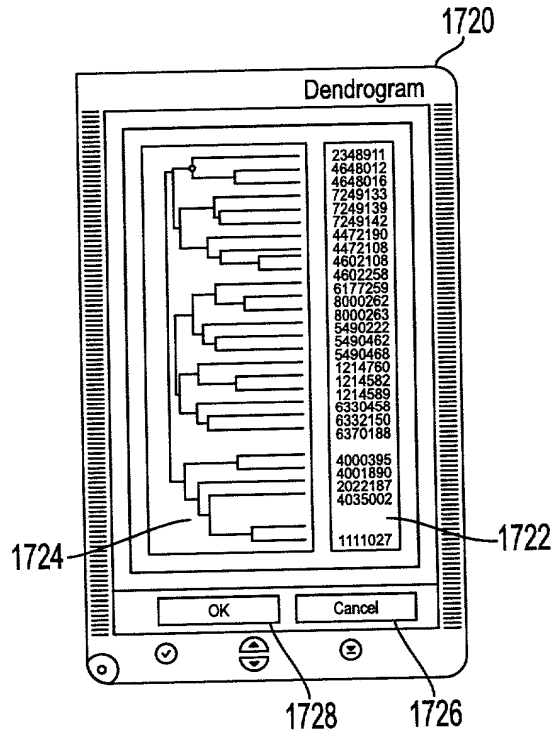


FIG. 17B

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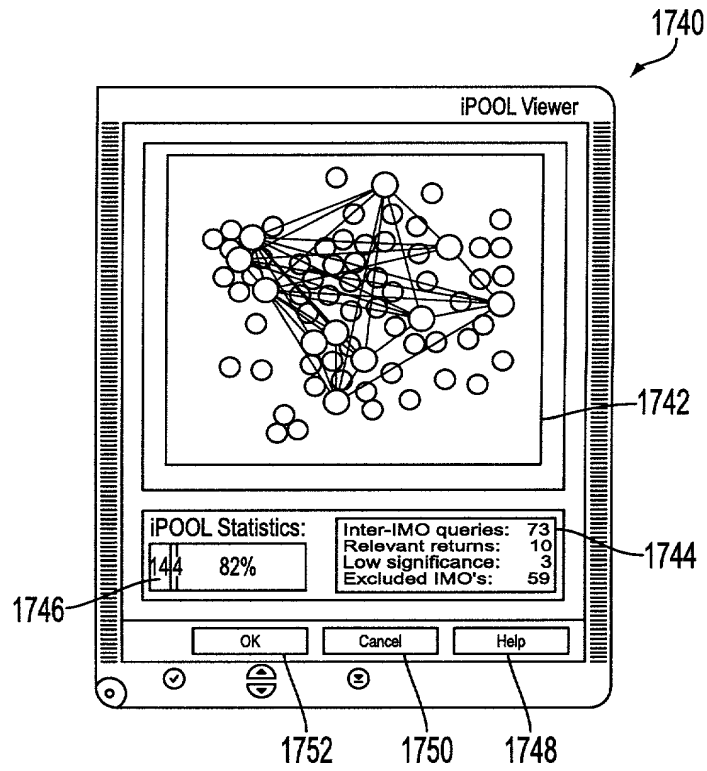


FIG. 17C

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